89695

Methods of Obtaining p-n Junctions ... S/139/61/000/001/003/018

potassium $\sim 90 \text{ V}$, Li $\sim 30 \text{ V}$, As $\sim 20 \text{ V}$. These differences cannot be explained by differences in the initial resistivities The growth of current is attributed to: 1. tunnelling by a Zener mechanism; 2, impact ionization of atoms within the junction by the current carriers in the strong electric fields of the junctions. In diodes prepared from material of greater than 0.5Ω cm the current growth is by impact ionization. The differing critical voltages are due to the differing depths of the energy levels associated with the impurity atoms. determines the field at which ionization occurs. characteristics of diffused Ge diodes and alloyed Si diodes are shown in Fig.4; the static characteristics are plotted in Fig.5, I mA cm⁻² vs V in volts. Ga-As diodes of the p-type have characteristics resembling those plotted in Fig. 4. The method of producing alloyed Si diodes is not detailed, reference being made to work by M.P. Yakubenya (Ref.3) where the wetting properties of titanium alloyed with Ag, Ni, Cu etc (the "active phase") are discussed. In earlier work of the author (Ref.1) this system had been applied to Si and the nature of the bond between Si, the active phase and the Ti was investigated. The system has

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s/139/61/000/001/003/018 Methods of Obtaining p-n Junctions ... E036/E435

rectifying properties, the Ti apparently behaving as an acceptor. There are 5 figures and 3 Soviet references.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

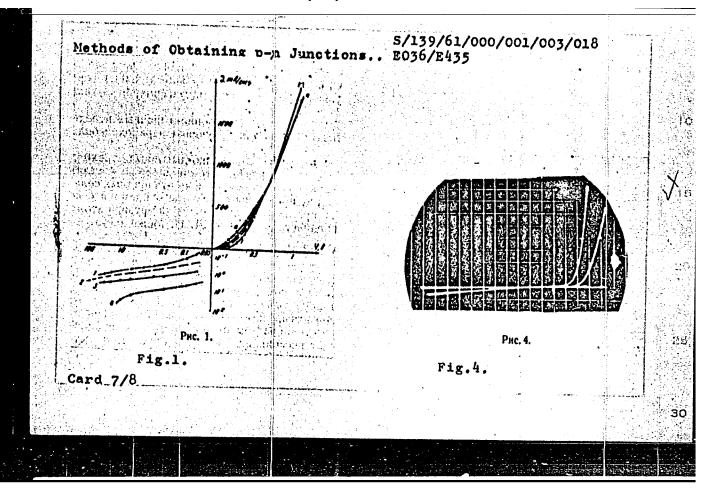
gosuniversitete imeni V.V.Kuybysheva (Siberian Physicotechnical Institute of Tomsk State University

imeni V.V.Kuybyshev)

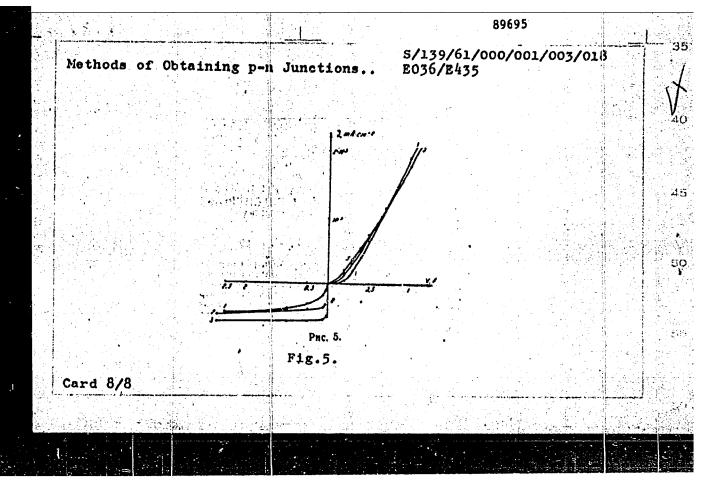
SUBMITTED:

September 22, 1959 (initially) June 20, 1960 (after revision)

Card 6/8



"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722110007-1



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AUTHOR; Prosnov, V. A.; Vyatki, A. P.; Bovotnyty, S. I.; Khludkov, S. S.; Vilisov, A. A.	6 62 58	
TITIE: Investigation of rectifying proparties of gallium arsenide [Report at All-Union Conference on Semico ductor Devices, Tashkent, 2-7 October, 1961]		
SOURCE: Klaktronno-dy*rochny*y perekhody* v poluprovodníkakh. Tashkent, Izd-AN UzSSR, 1962, 259-266		
TOPIC TAGS: GmAs rectifier ABSTRACT: The work is a continuation of research in point-contact diodes and		
diffusion junctions in p-type Baks (Presnov, V. A., at al. Reports at the 3-rd Vuz Conference on Modern Dielectrics and Semiconductors, Leningrad, 1960). Gas prepared with resistivities from a few 10 4 to 10 1 ohm.cm. Only n-Gaks exhibit	was	
good rectifying properties: diden with 0.005-0.01 ohm.cm resistivity and 10-17 - 10-18 cm-3 electron concentration showed a good rectification factor, forward currents, low cutoff voltages, and reverse voltages of 5-10 v. Higher	arge	
resistivity diodes showed a higher reverse voltage, a smaller forward current	, and	
Cord 1/2		
	- C -1,	o un

20-3500. Effect of stro with 20-microsec pulses farriers by ionizing im characteristics was mea junctions of p-GaAs; cu diffusion of Ge, Se, an to A. P. Isargin who pr	Current-voltage characteristics were measure ng electric fields on GaAs chaic point contact at 20 cps; it was found that the strong fipurity centers. Also effect of forming on the sured A separate investigation was made of rrent-voltage characteristics of junctions of d S were measured. "The authors express their spares GaAs and to B. A. Selivanov, A. M. Par help in the work." Orig. art. has: 9 figure	cts was masured eld produces e current voltage diffusion pen btained by deep grititude lkin, and
ASSOCIATION: none		
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KALUDKOV, S.S

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Investigation of the kinetic characteristics of highly doped indium antimonide. V. A. Kokoshkin (10 minutes).

Synthesis, doping, and preparation of single crystals of gallium arsenida. A. P. Izergin, A. G. Grizor'yeva, V. N. Chernigovskaya, G. H. Ikonnikova.

Crystallization of gallium arsenide under different pressures of arsenic vapor. S. S. Khlubkov, V. A. Celivanova, G. M. Ikonnikova.

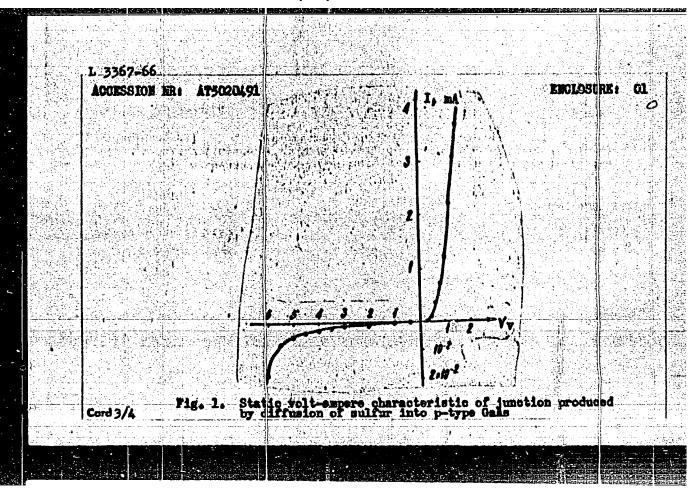
Influence of impurities on the electrical properties of gallium arsenide. M. A. Krivov, Ye. V. Malisova, C. V. Malyanov. (Presented by M. A. Krivov--15 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

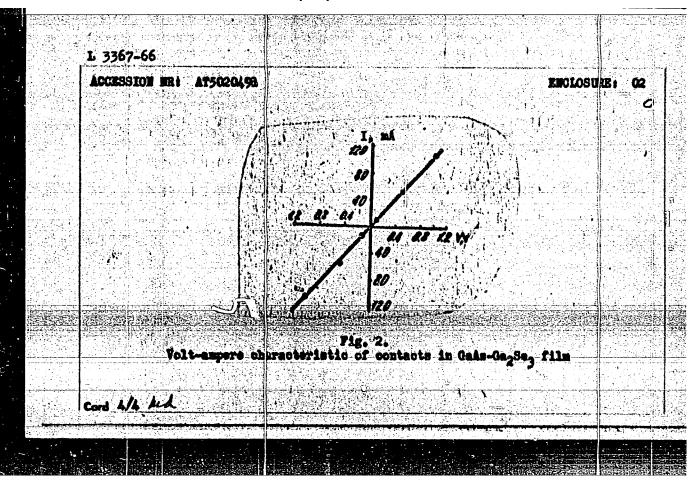
L 3367-66 EWT(1)/EWT	m)/T/EWP(t)/EWP(b)/EWA(b) IJP(c) JD/GS	. ⊉ Jain
ACCESSION NR: AT5020491	UR/2000/64/000/000/Q	46/0456
	y Vyatkin, A. P.; Grishin, V. I.; Presnov, V. A	_(Pro-
fessor)	21.44,55 vy, 55 vy, 5	<i>5</i> 5
TITLE: Diffused p-n ium	otions in gallium arsenide	8+1
SOURCE: X Meshvusovskaya	nauchno-tekhnicheskaya konferentsiya po fizike	
poluprovodníkov (poverkh Poverkhnostnyve i kontak	hostnyye i kontaktnyye yavleniya). Tomsk, 1962. tnyye yavleniya v poluprovodnikakh (Surface and ors). Tomsk, Isd-vo Tomskogo univ., 1964, 446-45	contact
TOPIC TAGS: gallium ara	enide, pn junction, sulfur, germanium, selenium	-7
n-type Gals, and also pods of producing these to by diffusion of sulfur a	junctions in p-type gallium arsenide, p-n junction-p structures in p-type Gale were studied, and unctions are discussed. The p-n junctions were ad germanium in evacuated quarts ampules (10 4-1 g, grinding, and etching (5% NaOH + 30% NaO ₂ in	che meth- produced D-5 mm Hg
The p-n-p structures wer	e prepared by diffusion annealing of Gade in sel 0.5-22 hrs with	enium vapor of
Gord 1/4		

	The germanium-diffusion up to 4.105, while those	s static volt-ampere characteristic of a junction pro- lfur into p-type GaAs is shown in Fig. 1 on the Enclosure. junctions in the p-type GaAs had reqtification factors of wroduced by sulfur diffusion had a factor of 6-103. In
	factor of about 7.10.	the germanium-diffusion junctions had a rectification The volt-supere characteristic of contacts in Gals-Ga2Se3
6	and 2 formulas. ASSOCIATION: none	on the Enclosure. Origi art, hast 7 graphs, 2 diagrems,
	SURPLITARD: 0600164 BO REF SUV: 005	ENOL: C2 SUB CODE: 89
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ACC NR: AT6002261	SOURCE CODE: UR/2564/65/006/000/0275	//0280 //s
AUTHOR: Presnov, V.A.	is elivanova, V.A.; Khludkov, S.S.	فير ا
ORG: none	A	1
Third Conference on Crys	don of growth of gallium arsenide crystals [Paper pres stal Growing held in Moscow from 18 to 25 November,	19031
COUDCE. AN SSSR Inett	<u>kristallografii.</u> Rost kristallov, v. 6, 1965, 275-28	o '
OUTIOE, ANTEON, MASS	MICACIBIRITORI MIII. ILUBE REIBERITOV, V. V, 1300, 2.0	
	owb, gallium arsenide, crystal orientation	
TOPIC TAGB: crystal gro	owh, gallium arsenide, crystal orientation	e AⅢB ^V
TOPIC TAGS: crystal gro ABSTRACT: The preferr	owh, gallium arsenide, crystal orientation ed direction of growth of semiconductor crystals of typ udied at various pressures of the volatile component (A	e Alliby
TOPIC TAGS: crystal great ABSTRACT: The preferr in this case GaAs, was st Analysis of the crystals of pressure of arsenic over	owh, gallium arsenide, crystal orientation ed direction of growth of semiconductor crystals of typ udjed at various pressures of the volatile component (A bota ined showed that the directions of crystals grown at the melt are grouped near the main crystallographic di	e A ^{III} B ^V equilibr
TOPIC TAGS: crystal great ABSTRACT: The preferr in this case GaAs, was st Analysis of the crystals of pressure of arsenic over <110>. The effect of the determined as a function	owh, gallium arsenide, crystal orientation ed direction of growth of semiconductor crystals of typ uded at various pressures of the volatile component (A bota ined showed that the directions of crystals grown at the melt are grouped near the main crystallographic di polirity of this direction on the growth of GaAs crystal of the conditions of growth. The crystallographic orien	e A ^{III} B ^V equilibr rection s was attation of
TOPIC TAGS: crystal great ABSTRACT: The preferr in this case GaAs, was st Analysis of the crystals of pressure of arsenic over <110>. The effect of the determined as a function these crystals is retained substantial. A possible re-	owh, gallium arsenide, crystal orientation ed direction of growth of semiconductor crystals of typ udied at various pressures of the volatile component (A bota ined showed that the directions of crystals grown at the melt are grouped near the main crystallographic di politity of this direction on the growth of GaAs crystal of the conditions of growth. The crystallographic orien leven when deviations from the stoichiometric composi- nechanism of the growth of GaAs crystals with a prefer	e AIIIBV equilibr rection s was attion of tion are
ABSTRACT: The preferr in this case GaAs, was st Analysis of the crystals of pressure of arsenic over <110>. The effect of the determined as a function these crystals is retained substantial. A possible in	owh, gallium arsenide, crystal orientation ed direction of growth of semiconductor crystals of typ uded at various pressures of the volatile component (A bota ined showed that the directions of crystals grown at the melt are grouped near the main crystallographic di polirity of this direction on the growth of GaAs crystal of the conditions of growth. The crystallographic orien	e AIIIBV equilibr rection s was attion of tion are

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	atoms. The role of the { 111 discussed. Orig. art. has:	and C11Gorystallographic planes in the growth is figures and 1 table.
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ARTAMONOV, K.I.; LEBEDEV, N.I.; YERGALIYEV, E.Ye.; LESECHKO, A.K.;
YAKUSHIN, M.V.; KAZAKOV, V.N.; BRYUKHANOV, N.G.; NIKITINA, L.I.;
KHVESYUK, F.I.; Prinimali uchastiye: MATVEYEV, A.T.; KOVALEV, S.N.;
ROMANOV, V.S.; MARCHENKO, B.P.; ZUDOVA, T.I.; OMAROV, M.N.;
PECHENKIN, S.N.; LUKIN, Ye.G; KHLUDKOV, V.I.

Shaft-furnace copper smelting with an oxygen-enriched blow.
TSvet. met. 34 no.3:32-39 Mr 161. (MIRA 14:3)

1. Irtyshskiy polimetallicheskiy kombinat (for Artamonov, Lebedev, Yergaliyev, Lesechko, Matveyev, Kovalev, Romanov, Marchenko, Zudove, Omarov). 2. Vsesoyuznyy nauchnoissledovateliskiy institut tsvetnykh metallov (for Yakushin, Kazakov, Bryukhanov, Nikitina, Khvesyuk, Pechenkin, Lukin, Khludkov).

(Copper-Metallurgy) (Oxygen-Industrial applications)

SAVITSKIY, K.V.; KHLUDKOVA, A.N. Effect of thermocyclic treatment on the mechanical properties of aluminum. Izv. vys. ucheb. zav.; fiz. no. 3:158-160 '64. (MIRA 17:9) 1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni Kuybysheva.

KHLUDKOVA, A.N.; SAVINSKIY, K.V.

Effect of the quenching temperature on pore formation in cyclic thermal treatment of aluminum. Izv. vys. ucheb. zav.; fiz. 8 no.6:35-38 '65. (MIRA 19:1)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuznetsova. Submitted July 28, 1964.

KHLUDNEVA, K. I.

D. V. Sokolov, G. S. Litvinenko, and K. I. Khludneva, "Conformation of stereoisomers of 2-Methyl-4-ketodekahydroquinoline and 2-Methyl-4-oxydekahydroquinoline and Some of Their Derivatives."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561.564.

5(3) AUTHORS:

Sokolov, I. V., Litvinenko, G. S.,

507/79-29-4-15/77

Khludneva, K. I.

TITLE:

III. Stereochemistry of Nitrogen Heterocycles (III. Stereokhimiya

azotistykh geterotsiklov). III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline (III. Stereoizomeriya

2-metil-4-ketodekagidrokhinolina)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1112-1122

(USSR)

ABSTRACT:

Upon suggestion of the late Academician I. N. Nazarov, the authors chose in continuation of their previous papers

(Refs 1, 2) the easily accessible 2-methyl-4-

ketodecahydroquinoline (I) as subject of stereochemical investigations, which is synthesized from the acetylene derivatives (Ref 3) according to scheme 1. It has three asymmetric carbon atoms and can theoretically occur in the form of four racemates. From among the four possible racemates the racemates (II). (III) and (IV), denoted in

racemates the racemates (II), (III) and (IV), denoted in scheme 2 (X-, (>-, and g-isomer, were obtained. The fourth one, the (-isomer (V) could only be obtained in the form

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Card 1/3

III. Stereochemistry of Nitrogen Heterocycles. SOV/79-29-4-15/77 III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline

of its benzovl ierivatives (Va) (for details see table). On repeated fractional recrystallization of the hydrogen chloride salts (I) from anhydrous alcohol the compounds (VII) and (VIII) resulted. The results of the investigation indicate that the initial mixture of the isomers of 2-methyl-4-ketodecahydroquinoline (I) consists chiefly cf the stable & - and Y-isomers (II and IV) and partly of the less stable \$\beta\$-isomer (III). The very unstable d'-isomer (V) in the mixture apparently does not occur. For the time being it is not possible to solve the problem whether on the closure of the piperidine ring (see the scheme) immediately the more stable &- and & -isomers (II) and (IV) or, at first, the less stable D and S isomers (III) and (V) are formed on the double bond of the cyclohexane ring. The of -isomer (V) is rapidly transformed into the of-isomer (IV); the d- and b-isomers undergo mutual transformations by way of the hydrochloride into which compound (I) must be converted in order to separate it from neutral compounds. Thus, the conditions for the mutual transformations of stable isomers into unstable ones, and vice versa, are found.

Card 2/3

III. Stereochemistry of Nitrogen Heterocycles. SCV/79-29-4-15/77 III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline

There are 1 table and 9 references, 4 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk Kazakhskoy BSR

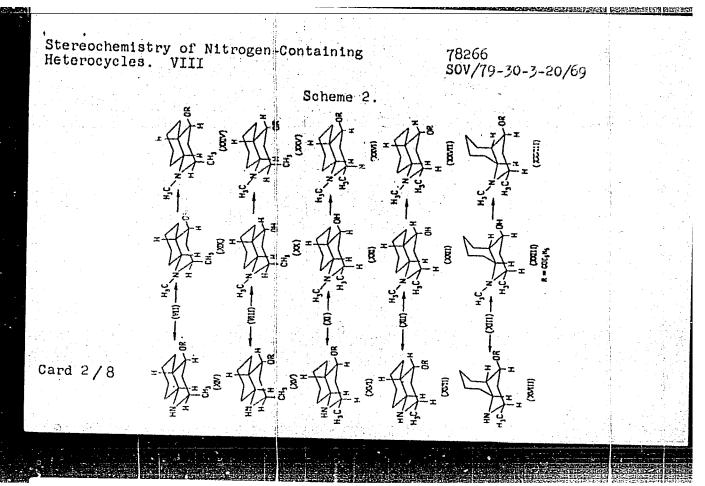
(Institute of Chemical Sciences of the Academy of Sciences

of the Kazakhskaya SSR)

SUBMITTED: March 6, 1958

Card 3/3

5.3400 78266 SOV/79-30-3-20/69 AUTHORS: Sokolov, D. V., Litvinenko, G. S., Khludneva, K. I. TITLE: Stereochemistry of Nitrogen-Containing Heterocycles. VIII. Rengold Esters of 2-Methyl-4-Hydroxydecahydroquinoline and 1,2-Dimethyl-4-hydroxydecahydroquinoline Isomers. New Anesthetics PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, pp 831-838 (USSR) This article is a continuation of previous work (Zhurnal obshchey khimii, 29, 3204 (1959); Ibid, 29, 3555 (1959) and is devoted to synthesis of benzoic esters of the ABSTRACT: five common alcohols (VII, mp 134°; VIII, mp 128°; XI, mp 144°; XII, mp 158°) with rings Joined trans, and alcohol (XIII, mp 115°) with rings Joined cis, as well as benzoic esters of these alcohols with methyl radicals at the nitrogen (scheme 2) Card 1/8



Stereochemistry of Nitrogen-Containing Heterocycles. VIII

78266 **SOV**/79-30-3-20/69

Heating the hydrochlorides of racemic alcohols (VII) (VIII), (XI), and (XII) with benzoyl chloride results in good yield of benzoic esters of 2-methyl-4-hydroxydecahydroquinoline, (XIV), (XV), (XVI), ans (XVII). Benzoic ester (XVIII) was obtained from N-benzoyl derivatives of alcohol (XIII) by the method described previously above ref). The properties of the obtained esters are shown in Table 3. Heating the same alcohols with a mixture of formaldehyde and formic acid yields (90%) five corresponding racemates of 1,2-dimethyl-4-hydroxydecahydroquinoline, (XIX), (XX), (XXI), (XXII), and (XXIII). The properties of the obtained compounds are shown in Table 2. Compounds were converted into corresponding benzoic esters, (XXIV), (XXV), (XXVI),

Card 3/8

Sterochemistry of Nitrogen-Containing Heterocycles. VIII

78266 SOV/79-30-3-20/69

(XXVII) and (XXVIII). They are shown in Table 4. The majority of the synthesized compounds have strong anesthetic properties surpassing that of novocain, and especially cocain; some of them were comparable to dicain. The obtained compounds were tested at the Alma-Ata Medical Institute (chair of pharmacology) and at the Institute of Physiology of the Academy of Sciences of the Kazakh SSR (pharmacology laboratory), under the direction of I. I. Sivertsev. There are 4 tables; and 8 Soviet references.

ASSOCIATION:

Institute of Chemical Sciences of the Academy of Sciences of the Kazakh SSR (Institut khimicheskikh

nauk Academii nauk Kazakhskoy SSR)

SUBMITTED:

March 19, 1959

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Table 2	8	. c	D	L [201/19-	-30-5-20	/69
					# *		
	a) CnH2iON	30	.93.5	116 - 117			
en e	$XIXI \left\{ \begin{array}{l} \delta \end{array} \right\} C_{11} H_{22} ONCI$			238 239		•	
	[a) $G_{17}H_{21}G_{5}N_{4}$			149,5			
	(a) Call 210X	20	92.5	148139	•		1
et de la companya de La companya de la co	(NX) 6) C ₁₁ 11-20NCl			257 - 258			
	[n) C ₁₇ U ₃ O ₈ N ₄		-	175 ~ 176			
	(a) C _H 11 ₂₁ ON	45	90.2 .	8788			
	NNte 6) Carl 220NCI			173~-175			
	b) C ₁₇ 11 ₂₄ O ₈ N ₄			140142			
• 	(a) C ₁₁ H ₂₁ ON	25	79.2	130131			
t.X	(XII) (6) C ₁₁ H ₂₂ ONCI			150151			
	n) C ₁₇ H ₂₁ O ₃ N ₅			192193			
	(a) CnHaoN	25	80.0	99 - 100	!		
(S)	XIII) 6) CHH22ONC)			192-194			
	M C III O M			180 151			
Card 5/8	$(-\mu) C_{17}1 _{21}O_8N_1$	1 -	***	149151			
					·		

Table 3	•				A			78266	
$(XIV) \begin{cases} 6) C_{17}H_{14}D_{2}P_{1} & - & - & 283-284^{\circ} \\ a) C_{12}H_{12}D_{2}N & 197-198 & 64.0 & 77-78 \\ (XV) \begin{cases} 6) C_{17}H_{21}O_{4}NC1 & - & 269-271 \\ b) C_{23}H_{24}C_{1}N_{4} & - & 269-271 \\ c) C_{23}H_{24}C_{1}N_{4} & - & 269-271 \\ c) C_{17}H_{21}O_{2}N & 190-193 & 53.6 & 87-87.5 \\ (XVI) \begin{cases} 6) C_{17}H_{21}O_{2}NC1 & - & 270-272 \\ c) C_{22}H_{21}O_{9}N_{4} & - & 249-241 \\ c) C_{17}H_{21}O_{2}NC1 & - & 249-241 \\ c) C_{17}H_{21}O_{2}NC1 & - & 271-273 \\ c) C_{23}H_{19}O_{9}N_{4} & - & 271-273 \\ c) C_{23}H_{19}O_{9}N_{4} & - & 271-273 \\ c) C_{17}H_{18}O_{2}NC1 & - & 304-305 \\ c) C_{18}H_{19}O_{2}NC1 & - & 304-305 \\ c) C_{18}H_{19}O_{2}N$	Та	ble 3		В	С	D	E	sov/79-30-3	-20/69
$(XV) \begin{cases} 6) C_{17}H_{24}O_{4}NC1 & - & 269-271 \\ 8) C_{23}H_{24}C_{1}N_{4} & - & 256-257 \end{cases}$ $(XVI) \begin{cases} 6) C_{17}H_{24}O_{2}NC1 & - & 270-272 \\ 8) C_{23}H_{24}O_{9}N_{4} & - & 249-241 \end{cases}$ $(XVII) \begin{cases} 6) C_{17}H_{24}O_{4}N & ** \\ 6) C_{17}H_{24}O_{4}N & ** \\ 6) C_{17}H_{24}O_{4}N & ** \\ 6) C_{17}H_{24}O_{2}NC1 & - & 214-215 \\ 8) C_{23}H_{16}O_{9}N_{4} & - & 271-273 \end{cases}$ $(XVIII) \begin{cases} 6) C_{17}H_{16}O_{2}N[^{7}] & 135-140 & 50.2 & 75-76 \\ 6) C_{17}H_{16}O_{2}N[^{7}] & 135-140 & 50.2 & 75-76 \\ 6) C_{17}H_{16}O_{2}N[^{7}] & - & 304-305 \\ 8) C_{24}H_{25}O_{3}NC1 & - & 304-305 \\ 8) C_{24}H_{25}O_{3}NC1 & - & 304-305 \\ 8) C_{24}H_{25}O_{3}NC1 & - & 216-217 & * d_{4}^{20} 1.0869, n_{6}^{20} 1.5396, \end{cases}$			(XIV)	6) C17H2(D21931	183—190° — —	84.6 — —			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			(XV)	6) C ₁₇ H ₂₁ O ₂ NCI	197—198 — —	64.0	269-271		
(XVII) $\begin{cases} 6) C_{12}H_{24}O_{2}NCI \\ B) C_{23}H_{20}O_{2}NI_{2}O_{2}NI_{2} \\ \end{cases}$ $(3) C_{17}H_{10}O_{2}NI_{2} \\ \begin{cases} 6) C_{17}H_{10}O_{2}NI_{2} \\ \end{cases}$ $(3) C_{17}H_{10}O_{2}NI_{2} \\ \end{cases}$ $(3) C_{17}H_{10}O_{2}NI_{2} \\ \end{cases}$ $(3) C_{17}H_{10}O_{2}NI_{2} \\ \end{cases}$ $(3) C_{17}H_{10}O_{2}NI_{2} \\ \vdots$ $(3) C_{17}H_{10}O_{2}NI_{2} \\ $		•	(XVI)	6) C ₁₇ H ₂ ,O ₂ NCI	190—193 — —	53.6	270—272		
(XVIII) $\begin{cases} 6) C_{17}H_{14}O_{2}NC1 & - & 304-305 \\ 9) C_{-1}H_{14}O_{2}Nc & - & 216-217 \end{cases} \stackrel{0}{=} \frac{d_{4}^{20}}{d_{4}^{20}} \stackrel{1.0869}{=} \frac{n_{p}^{20}}{1.5396},$			(XVII)	a) C ₁₇ H ₂₁ O ₄ N ** 6) C ₁₇ H ₂₄ O ₂ NCl	197—199 — —	1.4			
Calu Oyo		cand 6/8		6) C ₁₇ H ₁₁₄ O ₂ NCI	135—140 — —	50.2	304—305	• d ₂ ²⁰ 1.0569, n ₂ ²⁰ •• d ₃ ²⁰ 1.0874; n ₂ ²⁰	1.5390, 1.5360,
		caru o/o				- 			

Table 4 $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Table 4 (XXIV) (a) $C_{18}H_{25}D_{2}N$ $160-165^{\circ}$ 99.0 $62-63^{\circ}$ $62-63^{\circ}$ $60 \cdot C_{18}H_{25}D_{2}NC1$ $-$
Table 4 (XXIV) (a) $C_{18}H_{25}D_{2}N$ $160-165^{\circ}$ 99.0 $62-63^{\circ}$ $62-63^{\circ}$ $60 \cdot C_{18}H_{25}D_{2}NC1$ $-$
Table 4 $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Table 4 $ \frac{\mathcal{B}}{(XXIV)} \begin{cases} a) C_{18}\Pi_{23}O_{2}N & 160-165^{\circ} & 99.0 & 62-63^{\circ} \\ 6) C_{18}\Pi_{23}O_{2}NC1 & - & 269-270 \\ 0) C_{24}\Pi_{24}O_{0}N_{1} & - & - & \\ (XXV) \begin{cases} a) C_{18}\Pi_{22}O_{2}N & 160-165 & 84.0 & 41-42 \\ 6) C_{18}\Pi_{24}O_{2}NC1 & - & 204-205 \\ 0) C_{24}\Pi_{24}O_{0}N_{4} & - & 233-234 \\ \end{cases} $ $ (XXVI) \begin{cases} a) C_{18}\Pi_{24}O_{2}NC1 & - & 217-218 \\ 6) C_{18}\Pi_{24}O_{2}NC1 & - & 217-218 \\ \end{cases} $
Table 4 (XXIV) $\begin{cases} a) C_{18}H_{25}D_{2}N & 160-165^{\circ} & 99.0 & 62-63^{\circ} \\ 6) C_{18}H_{20}D_{2}NC1 & - & 269-270 \\ 0) C_{24}H_{24}D_{0}N_{1} & - & - & 41-42 \\ (XXV) \begin{cases} a) C_{18}H_{24}D_{2}N & 160-165 & 84.0 & 41-42 \\ 6) C_{18}H_{24}D_{2}NC1 & - & 204-205 \\ a) C_{24}H_{24}D_{0}N_{4} & - & - & 233234 \end{cases}$ (XXVI) $\begin{cases} a) C_{18}H_{24}D_{2}N & * & 145-150 & 97.0 \\ 6) C_{18}H_{24}D_{2}NC1 & - & 217-218 \end{cases}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$(XXV) \begin{cases} 0 & C_{18}\Pi_{24}O_{0}N_{4} \\ 0 & C_{18}\Pi_{24}O_{2}N * \\ 0 & C_{18}\Pi_{24}O_{2}NC1 \\ 0 & C_{24}\Pi_{24}O_{0}N_{4} \end{cases} = \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
(XXVI) $\begin{cases} a) C_{18}H_{24}O_{2}N \bullet \bullet \\ 6) C_{18}H_{24}O_{2}NGI \end{cases} - \begin{cases} 97.0 \\ - 217-218 \end{cases}$
(NXVI) $\{6\}$ C ₁₈ H ₂₀ O ₂ NCI - 217-218
(NXVI) $\{6\}$ C ₁₈ H ₂₀ O ₂ NCI - 217-218
(a) $C_{18}II_{22}O_2N^{\bullet\bullet\bullet}$ 140—145 87.7
$(XXVII) \left\{ \begin{array}{c ccc} 6) & C_{18} II_{26} O_2 NCI \end{array} \right \left. \begin{array}{c ccc} F \end{array} \right.$
(n) $C_{24}H_{28}O_{n}N_{4}$ — $ 212-213$
$(XXVIII)$ $\begin{cases} a) C_{18} H_{20} D_2 N & 150-155 & 95.0 & 57-58 \end{cases}$
$\frac{1}{100}$ C ₁₈ H ₂₀ D ₂ NCl - 232-231
d_4^{20} 1.0844, n_2^{20} 1.5417,
Card 7/8 $\overset{**}{\overset{*}{\circ}} \overset{d_4^{20}}{\overset{*}{\circ}} \overset{1.0702}{\overset{*}{\circ}} \overset{n_2^{20}}{\overset{*}{\circ}} \overset{1.5380}{\overset{*}{\circ}}$
Card 7/8 $d_4^{20} = 1.0702, n_4^{20} = 1.5380, d_4^{20} = 1.0723, n_8^{20} = 1.5368,$

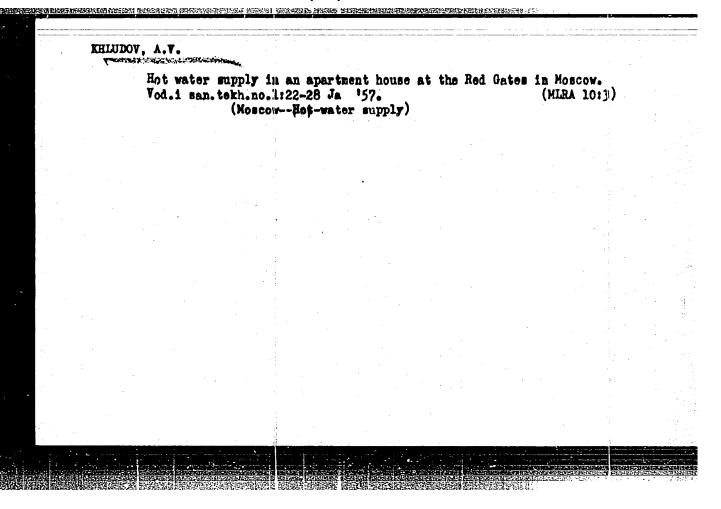
78266 Stereochemistry of Nitrogen-Containing SOV/79-30-3-20/69 Heterocycles. VIII Table 2. (A) Properties of isomeric 1,2-dimethyl-4--hydroxydecahydroquinolines and their derivatives; (B) formulas of isomers (a), their hydrochlorides (b) and picrates (c); (C) methylation time (in min); (D) yield (b); (E) mp. Table 3. (A) Properties of 2-methyl-4-hydroxydecahydroquinoline benzoates and their derivatives; (B) formulas of benzoates (a), their hydrochlorides(b), and picrates (c); (C) benzoylation temperature; (D) yield, (%); (E) mp. Table 4. (A) Properties of 1,2-dimethyl-4-hydroxydecahydroquinoline benzoates and their derivatives; (B) formulas of benzoates (a), their hydrochlorides (b) and picrates (c); (C) benzoylation temperature; (D) yield (%): (E) mp; (F) hygroscopic. Card 8/8

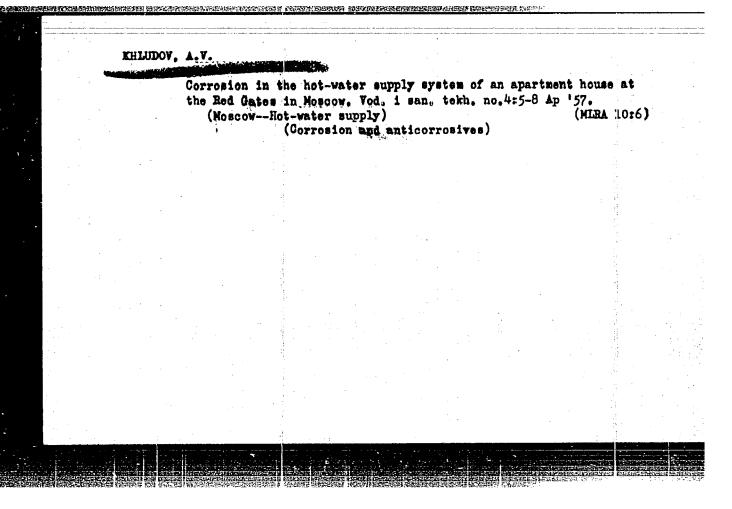
ACC NR: AP5026552	3)/846(h) SOURCE CODE: UR/0286/65/000/019/0	100/0100
AUTHORS: Slivitski	T. B. A.; Khludov, A. I.	41
CRO: nome		$ \mathcal{B} $
TITLE: A direct cu	errent logarithmic amplifier. Class 42, No. 175316 (announ	ed
gosudarstvennogo ko	the State Committee on the Use of Atomic Energy (Organizatemiteta po ispol'sovaniyu atomoy energii)	
SOURCE: Byulleten'	isobreteniy i tovarnykh snakov, no. 19, 1965, 100	
TOPIC TAUS: amplif	fier, direct current, linear approximation, automatic regul	ation
ABSTRACT: This Aut	thor Certificate presents a d-c logarithmic amplifier conta	ining an
innut conlictor ate	age, modulator, a-c amplifier, and a demodulator. The ampli	fior is
designed to increas	se the calculation precision and to broaden the logarithmic	
designed to increas operation range. T	The negative feedback circuit contains a linear approximation	
designed to increas operation range. To circuit for the exp	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximation	tion
designed to increas operation range. T circuit for the exp circuit is connecte	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximation to a clipper circuit for automatically switching the open	ition ration
designed to increas operation range. T circuit for the exp circuit is connecte mode of the imput t	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximation	tion ration Lues
designed to increas operation range. T circuit for the exp circuit is connecte mode of the input tof the input current	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximated to a clipper circuit for automatically switching the openue from a linear mode to a logarithmic mode with large value in the mikily sloping part of the logarithmic characteristics.	tion ration Lues
designed to increas operation range. T circuit for the exp circuit is connecte mode of the imput t	The negative feedback circuit contains a linear approximation on the input of this exponential approximate to a clipper circuit for automatically switching the opertube from a linear mode to a logarithmic mode with large values.	tion ration Lues
designed to increas operation range. T circuit for the exp circuit is connecte mode of the input t of the input current SUB CODE: 09/	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximated to a clipper circuit for automatically switching the opertube from a linear mode to a logarithmic mode with large value in the middly sloping part of the logarithmic characterisms. SUBN DATE: 25Apról:	ation ration iues cic.
designed to increas operation range. T circuit for the exp circuit is connecte mode of the input tof the input current	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximated to a clipper circuit for automatically switching the openue from a linear mode to a logarithmic mode with large value in the mikily sloping part of the logarithmic characteristics.	ation ration iues cic.
designed to increas operation range. T circuit for the exp circuit is connecte mode of the input t of the input current SUB CODE: 09/	The negative feedback circuit contains a linear approximation ponential function. The input of this exponential approximated to a clipper circuit for automatically switching the opertube from a linear mode to a logarithmic mode with large value in the middly sloping part of the logarithmic characterisms. SUBN DATE: 25Apról:	ation ration iues cic.

KHLUDOV, Aleksey Vasil'yevich; EINEMTAGI, D.K., redakter izdatel'stva; TORSE, A.H., tekinicheskiy redakter.

[Hot-water supply] Geriachee vedesnabshenie. Izd. 4-ee, perer.
Meskva, Gos.izd-ve lit-ry pe streit. i arkhit., 1957. 463 p.
(MLRA 10:4)

(Hetwater supply)





KHLUDOVA, Ol'ga Florent'yeypa; PROKHODTSEVA, S.Ya., red.;

SHCHERBINOVSKAMA, T.N., red.; MATVEYEVA, G.Ye., mlad.
red.; KOSHELEVA, S.M., tekhn. red.

[Behind the blue threshold] Za golubym porogom. Moakva,
Gog.izd-vo geogr. lit-ry, 1963. 228 p. (MIRA 16:12)

(Japan, Sea of-Marine biology)

KHLUDOV, Six

Kudinov, B.A., Naydis, V.A., Naletov, S.P., and Khludov, S.V.

ITLE:

UTHORS:

Selection of the Type of Drive for Feed Mechanisms in Heavy Vertical Lathes (Vybor Tipa Privoda Mekhanizmov Podachi Tyazhelyk)

Karusel'nykh Stankov).

PERIODICAL:

"Stank 1 i Instrument" (Machine Tools and Cutting Tools, No.3,

1957, pp.9-13. (U.S.S.R.)

BSTRACT:

A discussion of the advantages and disadvantages of various layouts in a wide range of heavy vertical lathes is accompanied by tables giving speed and feed limits and cutting forces for a range of diameters between 3200 mm and 20 000 mm and the corresponding range of component types between 2000 mm and 6,00 mm. The feed and setting-up mechanisms are sub-divided into those with purely electrical and those with electromechanical control, controlled by either a two-speed gear-box or a two-motor drive. Another table for the above range of component sizes gives the installed h.p. for a number of variants belonging to these two classes also illustrated by kinematic diagrams. It is concluded that except for the largest machines, the most appropriate arrangement is the feed drive by an individual d.c. motor with two-speed gear-box control and a separate motor for fast settingup motions. This arrangement yields the simplest and cheapest complete installation and is most readily standardised for the whole range of vertical lathes.

There are 6 illustrations and 4 tables.

ard 1/1

AUTHOR TITLE

HEUDOV.

11 7-1/25

KUDINOV B.A., NAYDIS V.A., NALHTOV S.P., KHLUDOV S.V.,
The Selection of the Main Drive Type of Heavy Vertical Lathes.
(Vybor tipa privoda glavnogo dvizheniya tyazhelykh karuselnykh stankov -Russian)

PERIODICAL

Stanki i Instrument, 1957, Vol 28, Nr 7, pp 1 - 3, (U.S.S.R.)

ABSTRACT

The development of the heavy metal working benches demands a continuous increase of the possibilities of regulating the main drive velocities because at steady minimum outting velocity the highest attainable values increase steadily thanks to the perfection of the hard metal tools. For modern vertical lathes the controllability of revolutions amounts from 1 : 80 to 1:100 the main drive may be by means of an asymptropic electromotor via a many-stepped switch box, or well as by means of a cotrollable direct current motor with a 2-or 4 -stepped switch-box. The direct current drive facilitates the control of revolutions and thus renders it possible to attain the best cutting conditions, which is the case especially when applying a special current transformer. The mechanical part of the drive, compared to the asynchronic motor, is simplified, (2 to 4 steps instead of 18 to 24 of the drive box) but the electric part is somewhat more complicated, which causes a decrease of operational safety, as well as an increase of initial costs; For the present heavy home models of vertical- and turning lathes, direct current motors with a shunt control of 4:1 as well as 3 mechanical awitching steps are used, which corresponds

Card 1/2

121-7 1 26

The Selection of the Main Drive Type of Heavy Vertical Lathes.

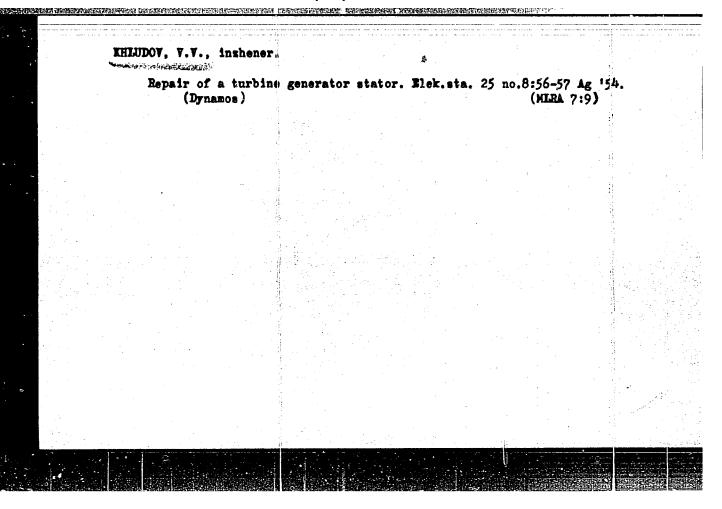
to a range domain of the faceplate revolving of from 1:64 to 1:85; individual motor converters are built in by 95% of the consumers. Table 1 and 3 illustrations show and explain the method of the most advantageous selection of the drive.

ASSOCIATION PRESENTED BY SUBMITTED Not Given.

SUBMITTED AVAILABLE Card 2/2

Library of Congress.

GLANTS, I.Ye.; KHLUDOV, V.M. Modernization of the technological equipment for leather manufacture. Kozh.-obuv.prom. 4 no.8:14-16 Ag '62. (MIRA 15:8) (leather industry-Equipment and supplies)



KHLUDOVR, M.S

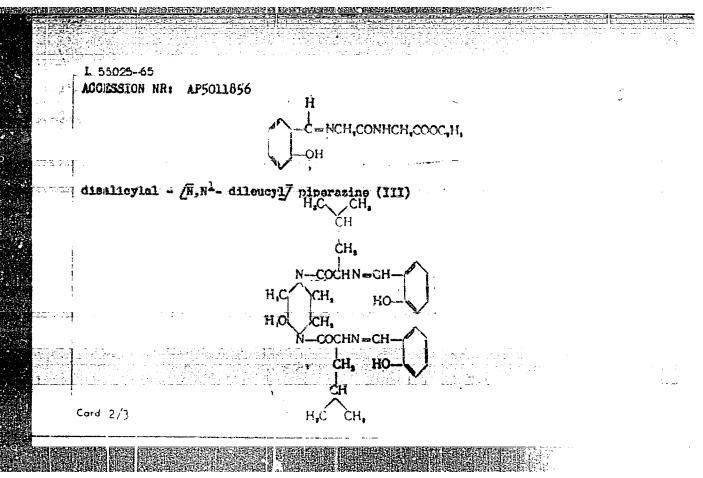
GOFMAN, A.; FREY, A.I.; RUTSHMANN, I.; OTT, Kh.; SHEMYAKIN, M.M.; KISHFALUDI, L.; KOCHETKOV, N.K.; DEREVITSKAYA, V.A.; PROKOF'YEV, M.A.; SHABAROVA, Z.A.; FILIPPOVA, L.A.; SHANKMAN, S.; KHAYGA, S.; LIV, F.; ROBERTS, M.Ye.; GAVRILOV, N.I.; AKIMOVA, L.N.; KHLUDOVA, M.S.; MAKSIMOV, V.I.; IZELIN, B.M.; SHEPPARD, R.K.; SHKODINSKAYA, Ye.N.; VASINA, O.S.; BERLIN, A.Ya.; SOF'INA, Z.P.; LARIONOV, L.F.; KNUNYANTS, I.L.; GOLUBEVA, N.Ye.; KARPAVICHUS, K.I.; KIL'DISHEVA, O.V.; MEDZIGRADSKIY, K.; KAFTAR, M.; LEV, M.; KORENSKI, F.; BUASSONA, R.A.; GUTTMAN, St.; KHOYGENIN, R.L.; ZHAKENO, P.A.; BAZHUS, S.; LENARD, K.; DUAL'SKI, S.; SHREDER, Ye.; SHMIKHEN, R.; KHOKHLOV, A.S.

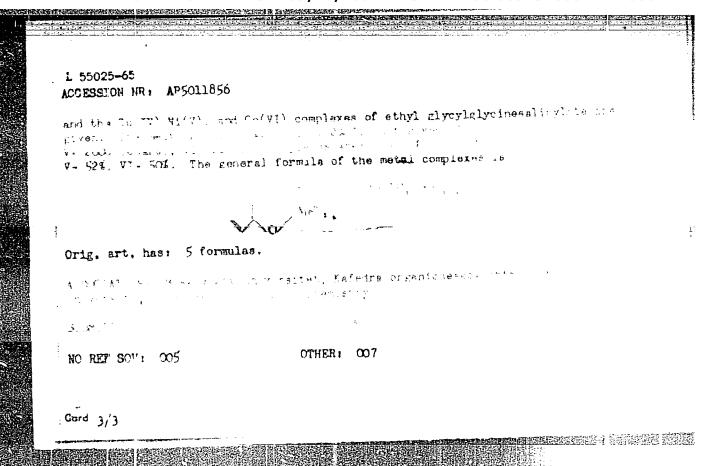
Results of the Fourth European Symposium on the chemistry of peptides. Abstracts of reports. Zhur. VKHO 7 no.4:468-476 162. (MIRA 15:8)

1. Aktsionernoye obshchestvo "Sandos", Bazel', Shveytsariya (for Gofman, Frey, Ott, Rutshmann). 2. Farmatsevticheskaya fabrika "G.Rikhter", Eudapesht, Vengriya (for Kishfaludi, Korenski, Dualski). 3. Institut khimii prirodnykh soyedineniy AN SSSR, Moskva (for Kochetkov, Derevitskaya, Shemyakin, Khokhlov).
4. Laboratoriya khimii belka Moskovskogo gosudarstvennogo universiteta (for Prokof'yev, Shabarova, Filippova, Gavrilov, Akimova, Khludova). 5. Fond meditsinskikh issledovaniy, Passadena, Kaliforniya, Sev.Soyed.Shtaty Ameriki (for Shankman, Khayga, Liv, Roberts). 6. Laboratoriya khimii belka Instituta organicheskoy (Gontiamed control card)

GAVRILOV, N.I.; AKIMOVA, L.N.; KHIJJDOVA, M.S. Amidine derivatives of aminoacyldi: xopiperazines. Coll Cs Chem 27 no.9:2250 S '62. 1. Moscow State University, U.S.S.R. (for Gavrilov and Akimova).

1 55025-65 EWT(m)/EWP(j)/r Pc-4 RM	
ACCESSION NR: APSOL1856	UR/0189/65/000/002/00914
AUTHORS: Khludova, H. S.; Akimova, L. N.	24
MYRR P. Combanda of the Comban	B T
TITLE: Synthesis of chelate compounds of cart	ain aminoacid derivatives
SOURCE: Moscow. Universitet. Vestnik. Seriya	2. Khimiya, nc. 2, 1965 21
TOPIC TAOS: eminoacid, chelate compound	
ABSTRACT: The paper is an extension of work r	reported previously by L. N. Arizora
and V. S. Kvapishevski (Vestn. Hosk. un-ta. se	r. himii No. 4. 1965) Processives
for synthesis of mothyl 1- tyrosinesalicylate COOCH,	
-CH=N-CH-CH,C	_• Н _• ОН,
—ОН	
ethyl glycylglycinesalicyla (II)	
Card 1/3	





KHLUDOVA, On'ga Florent'yevna, khudoshnik-soolog; SHCHERBINOVSKAYA,
T.N., red.; MAIXES, B.H., mladshiy red.; VILENSKAYA, E.N.,
tekim.red.

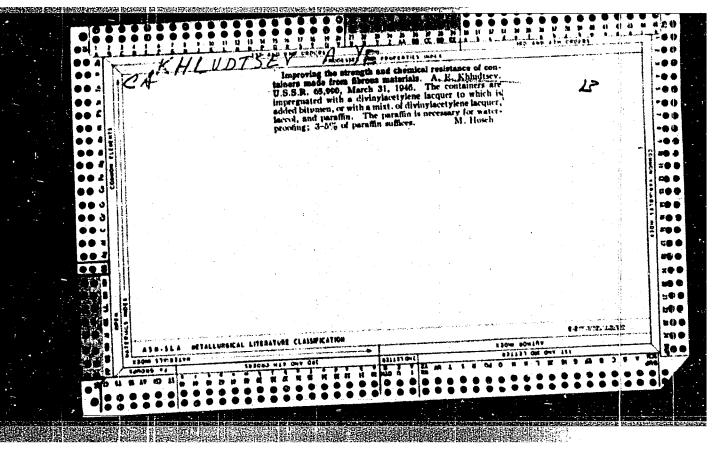
[Waves over us] Velpy nad nami. Moskvn, Gos.izd-ve geogr.
lit-ry, 1960. 214 p.
(Black Sea--Marine fauna)
(Azov Sea--Marine fauna)

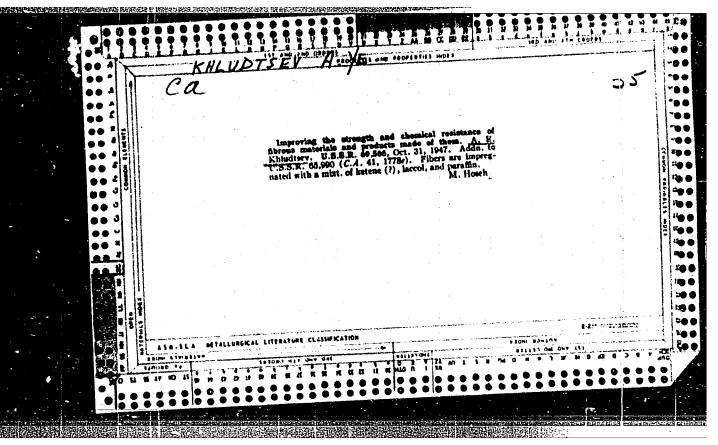
KUNIN, V.; KHLUDTSEV, A.; RATNER, G.

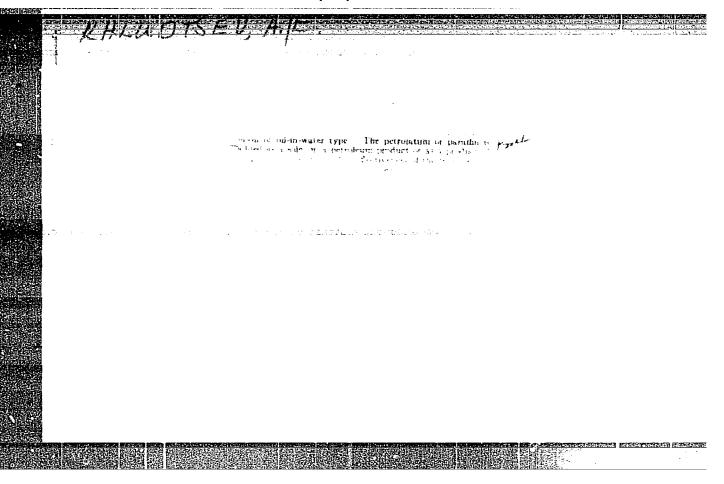
Arbolit for rural construction. Sel'. stroi. 16 no.6:21-22 Je '61. (MIRA 14:7)

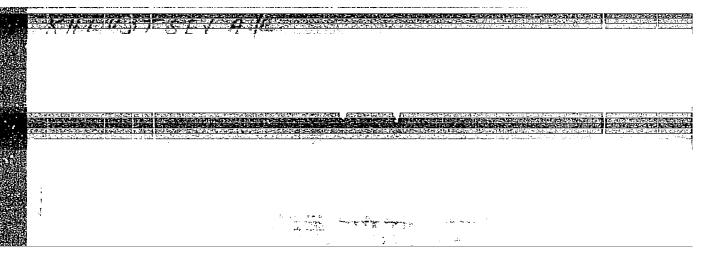
1. Glwnyy inzh. Giprostandartdoma (for Kunin). 2. Nachal'nik otdela novykh stroitel'nykh materialov Giprostandartdoma (for Khludtsev). (Idghtweight concrete)

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722110007-1









KHLUNOV, V. A.

"Effect of the Geometric Farameters of a Sprocket and a Roller Chain on the Working Capacity of a Chair Drive." Sub 2 Jul 51, Moscow Tool and Tool Inst imeni I. V. Stalin

Dissertations presented for science and engineering degrees in Moseow during 1951.

SO: Sum. No. 480, 9 May 55

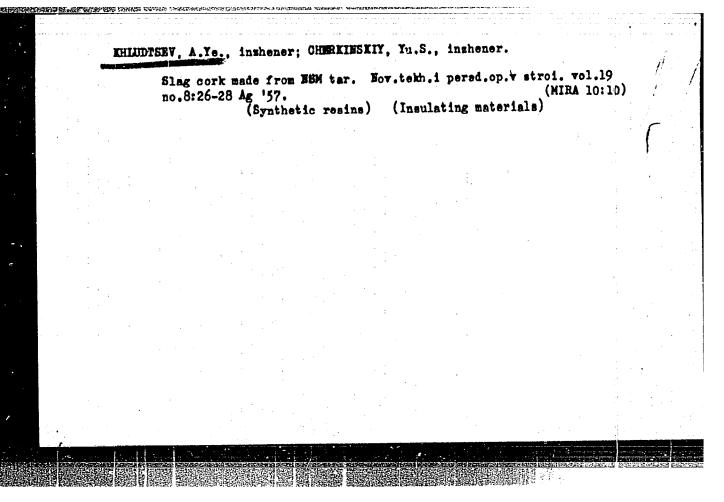
KHLUNOV, V. A. and A. A. KUDRIASHOV

Laboratornoe issledovanie tsepnogo privoda. (Vostn. Mash., 1951, no. 2, p. 5-9)

Laboratory research in chain drives.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



KHLUDTSEV, A.Y.

AUTHOR:

Khludtsev, A.Ye., Engineer

118-58-5-3/18

TITLE:

Automation of the Sawing of Thin Logs (Avtomatizatsiya raspi-

lovki tonkomernoy drevesiny)

12

PERIODICAL:

Mekhanizatsiya Trudoyemkikh i Tyazhelykh Rabot, 1958, Nr 5,

pp 10-13 (USSR)

ABSTRACT:

The author explains the advantages and efficiency of circular saws of special construction for sawing thin logs. The increase in output amounts to 8-10%, and the use of conic saws will give a further increase of 4-5%. The author has developed several types of circular sawing machines for short and long trunks by which boards of various dimensions can be cut. The expediency of sawing round lumber of any length by disk saws, including conic ones, was proved in tests. It was also established that for an increase in output and finished quality, other special machines and a special technology of sawing are required. The experience of the Luzskiy lesokombinat (Luzki Lumber Combine) of the Kirov Sovnarkhoz has proved that the output of a double-saw machine when sawing thin logs, and of a multiple-saw machine for squared-beam cutting is twice as high as that of modern wood-sawing frames for cutting

Card 1/2

118-58-5-3/18

Automation of the Sawing of Thin Logs

thin logs. In addition to the Luzki Lumber Combine, sawing of thin logs with circular saws is carried out by the Permilovskiy, Yakshanga, Shar'inskiy imeni Lenin, Plesetsk and other saw mills. The Industroyproyekt and GPI-2 have manufactured for the Vyatsko-Polyanskiy domostroitel'nyy kombinat (Vyatka-Polyany House Construction Combine) an automatic line for sawing thin logs, 9-20 cm in diameter at the upper cut, and 2-8 meters in length. It was based on 2 types of special circular-saw machines: a four-saw squared-beam cutting machine with a chain feed and a four or eight-saw lengthwise-cutting machine with a rolling feed. The construction of an 8-saw machine is similar to that of a 4-saw one with a rolling feed. There are 4 drawings.

AVAILABLE:

Library of Congress

Card 2/2

1. Wood-Processing 2. Sawmills-Equipment 3. Saws-Applications

KHLUDTSEV, A.Ye., inzh.; CHERKINSKIY, Yu.S., inzh.

New synthetic resins based on waste materials from the chemical industry and their use in the manufacture of building materials. Shor. trud. VNIINSM no.2:46-51 '60. (MIRA 15:1)

(Resins, Synthetic)
(Building materials industry)

FEDOROVA, T.P., kand. tekhn. nauk; KHLUDTSEV. A.Yg., inzh.; GERASIMOV, V.I., inzh.

Improvement in the quality of semirigid minoral wool slabs.
Stroi. mat. 11 no.7:31-32 Jl '65. (MIRA 18:8)

KHIDS, A. A.

"Investigation of the Resistance of the Bearing Mechanism in a Catepillar Agricultural Tractor in Its Operation of Soil." Cand Tech Sci, Khar'kov Polytechnic Inst, Khar'kov, 1954. (RZhNekh, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

SOV/124-58-10-10836

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 18 (USSR)

AUTHOR:

Khlue, A. A.

TITLE:

On the Problem of Rolling Resistance of Supporting Rollers on Caterpillar Tracks in Motion (K voprosu o soprotivlenii kacheniya opornykh katkov po gusenitse)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 16, pp 101-110

ABSTRACT:

Description of the well-known physical phenomena accompanying the motion of caterpillar tracks on soft earth is given as well as an experimental confirmation of the nonuniform character of the distribution of roller resistance to motion. A description of a dynamometric pin in the caterpillar track used in the experiment is given and two resistance oscillograms for the top and bottom branches of DT-54 and STZ-NATI tractor. caterpillar tracks are

included.

M.K. Kristi

Card 1/1

A.A. kand takin nauk; GRUNAUER, A.A., inch. Using the method of pendulum oscillations in static balancing of rotating machine elements. Mauch.dokl.vys.shkoly; mash.i

prih. no.2:19-28 J1 59. 1. Predstavleno kafedroy "Teoriya mekhanismov i mashin" Khar'kovskogo politakhnicheskogo instituta. (Balancing of machinery)

(MIRA 12:10)

RHLUS, A.A., kand.tekhn.nauk Determining the dimension and the position of the plane of unbalance in static balancing by the method of pendulum oscillations. INV. vys.ucheb.zav.; mashinostr. no.4:18-26 '61. (MIRA 14:6) 1. Ukrainskiy saochnyy politekhnicheskiy institut. (Balancing of machinery)

RUMYANIGEV, B.P., dots., otv. red.; GULIDA, E.N., red.; KARTASHOV, I.N., prof., red.; KIRILLOV, Yu.G., dots., red.; MOGIL'NYY, N.I., dots., red.; SEVRYUK, V.N., dots., red.; STAN'KO, D.G., dots., red.; TSOY, N.G., dots., red.; KHLUS, A.A., dots., red.; POLUBICHKO, B.V., red.

[Problems of locomotive manufacture, technology of machine manufacture and founding] Voprosy lokomotivostroeniia, tekhnologii mashinostroeniia i liteinogo proizvodstva. L'vov, Izd-vo L'vovskogo univ., 1964. 126 p. (MIRA 17:10)

1. Lugansk. Mashinostroitel'nyy institut.

WHIUSER, G. R.

"Di-Isopropylfluorophosphate in Claucome Therapy," Vest. oftalmol., 28, No.2, 1949

ENCERPTA MEDICA Sec.12 Vol.10/12 Ophthalmology Ded 56 1895. KHLUSEV G.R. Dept. of Eye Dis., 1st Med. Inst., Moscow, *The administration of phosphacol in glaucoma (Russian text) VESTN. OFTAL. 1955, 34/4 (30-33) A new miotic, phosphacol, was studied. Phosphacol exerts a powerful antichelinesterase action, is of low toxicity, is easily dissolved in water in the ratio of 1:1000 and does not lose its properties with long storage. The action of phosphacol upon the intra-ocular pressure, on the size of the blind spot and on miosis was tested in 25 patients with various forms of glaucoma. It was established that a single instillation of phosphacol in a solution of 1:5000 lowers the intra-ocular pressure by 4-14 mm, mercury and the pressure remained stable for 1-4 hr.: repeated instillations maintained the lowered tone until measurement was made the next morning. The pupil contracted to the size of 0,5-1 mm.; after a single instillation the narrowing was on an average 2-3 mm, and was maintained for a period from 3-4 hr. up to 48 hr. The size of the blind spot contracted in the vertical meridian by 6-18 degrees and returned to its initial size in 3-5 hr. Phosphacol in a dilution of 1:5000 was administered 3-3 times in 24 hr. in the treatment of 24 glaucomatous patients; the previously systematically prescribed miotics (in the main pilocarpine) were ineffective. In 4 of these patients the glaucoma was absolute, or nearly so; in the others it was a decompensated or subcompensated congestive form of glaucoma in the early stage. The observations were carried on

for from 6 months to 2 yr. The intra-ocular pressure decreased on an average by 10-12 mm. mercury, normalizing the tonus in the limits of 16-30 mm. The field of vision and the visual aculty remained stable in the majority of cases, but in some the refraction of the glasses required for the correction of the myopia markedly increased which was evidence of an increasing spasm of accommodation. The size (diameter) of the pupil narrowed to 0.75-1.5 mm. The size of the blind

CONT

The size (diameter) of the pupil narrowed to 0.75-1.5 mm. The size of the blind spot remained within the limits of 16-25° in the vertical line, increasing up to 28-38°; simultaneously the intra-ocular pressure rose, reaching the high level of 28-30 mm, or even surpassing it (30-38 mm.). In a number of patients the combination of phosphacol with pilocarpine instillations proved to be most effective. The complaints of the patients were: pains of a ciliary character in the eye, headaches on the side of the diseased eye and, sometimes, a bitter taste in the mouth. For illustration purposes short abstracts from case histories of patients treated with phosphacol are adduced.

Dormidontova - Moscow

1895

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FOLYAKOV, V.I., kand. tekhn. nauk, retsenzent; FADETEV,
I.Ye., inzh., red.; DUDASOV, A.A., red. izd-va; TIKHANOV,
A.Ya., tekhn. red.

[Load-lifting and conveying equipment for plants manufacturing construction elements] Gruzopod"emnoe i transportnoe oborudovanie savodov stroitel'nykh detalei. Noskva; Gos.
nauchno-tekhn.izd-vo mashinostroit. lit-ry, [Nghl. 356 p.
(MIRA 15:3)

(Conveying machinery) (Hoisting machinery)

KHLUSOV, Andrey Yevstaf'yevich; POPOV, L.N., kand. tekhn. nauk, retsenzent; CRONDA, V.I., red.; SERGEYEV, V.M., red.; YASHUKOVA, N.V., tekhn. red.

[Exercises and course projects in load-lifting and conveying equipment of building materials plants] Uprazhnenia i kursovoe proektirovanie po gruzopod"emnomu i transportnomu oborudovaniiu zavodov stroitel'nykh detalei. Moskva, Rozvuzizdat, 1963. 139 p. (MIRA 17:3)

KHLUSOV, Andrey Yerstar'yevich; MIKHIN, A.A., dots., retsenzent; POLYAKOV, V.I., kand. tekhn. nauk, retsenzent; FADKYEV, I.Ye., inzh., red., DUBASOV, A.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Hoisting and conveying equipment of plants manufacturing structural parts] Gruzopod semmoe i transportnoe oborudovanie zavodov stroiti) i-nykh detalei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. litry, 1961. 356 p.

(Hoisting machinery) (Conveying machinery)

KHIUSOV, A. Ye., dotsent

Inefficiency of using a single-bucket excavator as a hoisting erane. Sbor. trud. MISI no.39:478-479 161.

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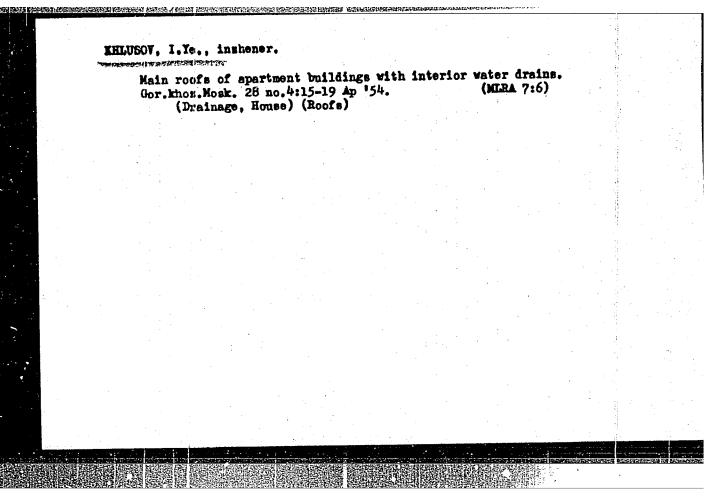
(Excavating machinery) (Cranes, derricks, etc.)

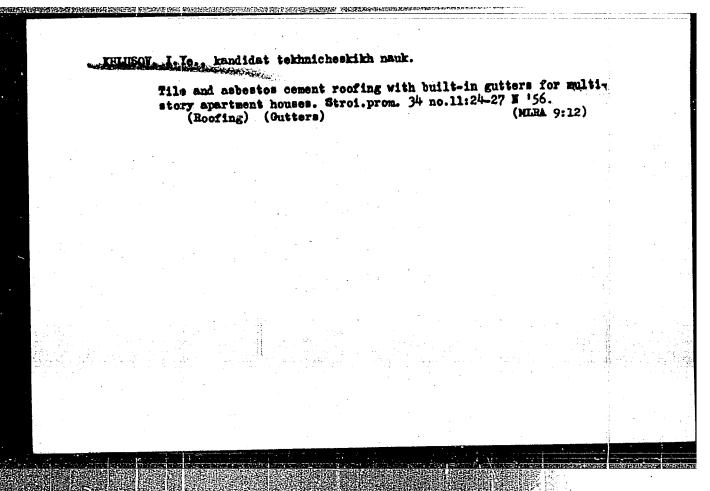
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SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)





97 - 1 - 7/10

AUTHOR:

T., Candidate of Technical Science.

TITLE:

(Sbornye zhelezobetonnyye Assembled Reinforced Concrete Roofs.

kryshi).

PERIODICAL: Beton 1 zhelezobeton, 1957, No. 1, pp. 26-28, (U.S.S.R.)

ABSTRACT:

The Institute of Building Technology of the Academy of Building and Architecture of the USSR (Institut stroitel'noy tekhniki akademii stroitel'stva i arkhitektury SSSR) investigated during 1956 the use of precast roof constructions and gutters which find extensive use in Moscow, Leningrad, Kiev, Erevan and Poltava. A roof construction designed by Mosproekt and erected in 1955 on a Moscow building is described. This construction consists of reinforced concrete rafters spaced at 2.4 m centres and reinforced concrete roof slabs (6 cm thick) with a 8 m area. The slab is painted with lacquer (No. 177) to prevent water penetration. The roof space is ventilated by louvered openings which are situated at both ends. Under these conditions the air exchange/hour was 0.3 of the total volume of air. The difference of temperature under and outside the roof was 5 - 12°C. These unusual loft conditions

Card 1/3

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97 - 1 - 7/10

TITLE:

Assembled Reinforced Concrete Roofs. (Sbornye zhelezobetonnye kryshi).

caused considerable condensation and the formation of up to Sem thick ice layer on the underside of the slab during the winter months. It was therefore necessary to increase the insulation on the roof. Testing of the roof slab showed that the weight saturation ratio of the upper layers of the slab was 8.9%, of the lower layer 9.9%. It can be assumed that approximately a quarter of the thickness of the slab is saturated with water. The freezing water initiates such conditions in the pores of the slab that flaking of concrete occurs. The resulting stresses are in the range of hundreds of kg/cm². It was also found that the water-proofing lacquer was unable to prevent water penetration. Satisfoactory results were obtained from tests with concealed steel welded gutters. Further work was carried out on other Soviet and foreign (Czechoslovak, GDR) reinforced concrete roof constructions consisted of mesh-reinforced corrugated slabs (specifications: width 58 or 118 cm, waves 30 cm centres, over-all depth of the

Card 2/3

SOV/97-58-11-4/11

Khlusov, I.Ye. (Candidate of Technical Sciences) AUTHOR:

Building Practice and Use of Precast Reinforced Concrete TITLE: Roof Constructions and Coverings. (Praktike stroitel: stva i ekspluatatsii sbornykh zhelezobetonnykh krovel; i.

pokrytiy)

PERIODICAL: Beton 1 Zhelezobeton, 1958, Nr. 11, pp.417-420 (USSR)

In 1957 120 million m² of bituminous felt roofing was laid in USSR. Under it, reinforced concrete decking 1 m² in area and 3 cm thick was used. The slabs were insulated ABSTRACT: The slabs were insulated against condensation and heat, covered with comen't screed and, finally, layers of waterproof felting. constructions did not develop defects if expansion joints Defects occurring in roof coverings can were provided. be explained by variations in deflections. increased thermal deformations of large reinforced concrete elements, and decreased elasticity of the roof covering material at These defects can partly be eliminated low temperatures. by covering over the joints between panels with a 30 cm.

wide bitumenized strip of glass fibre, or by filling the Card 1/4

SOV/97-58-11-4/11

Building Practice and Use of Precast Reinforced Concrete Roof Constructions and Coverings.

joints with plastic material (e.g. polymer-concrete). Reinforced concrete roof panels used for industrial buildings are usually joined together by welding or by bolting together. Tests were carried out on precast reinforced concrete roofing assembled from panels types PKZh and KAP and floor slabs NK 64-12 to investigate the behaviour of waterproof roof-covering material in relation to thermal and humidity conditions, and suitability for gutter construction. These investigations showed that defects did not occur during summer, but during winter defects did appear in the roofing material along the joints of the panels. In roofs constructed from slabs PKZh or slabs NK 64-12, 464 gypsum "movement indicators" were previded underneath the roof slabs, to check expansion and contraction. During the summer only 3 cracks, approximately 1 mm wide, were found, but during winter 360 cracks between 0.5 and 2 mm wide and 102 hair cracks were found. These cracks caused defects in the layers of roofing material. The hair cracks were caused by the decrease in plasticity of the

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Building Practice and Use of Precast Reinforced Concrete Roof Constructions and Coverings.

roofing material when the temperature dropped to - 23°C. At this low temperature the bitumen completely loses plasticity and becomes as brittle as glass. Experiments proved that precast reinforced concrete segmental slabs are more advantageous as a base for bituminous felt roofing. Fig.1 illustrates a construction of precast prestressed tapering roof slab spanning 18 m. Similar roof slabs were investigated by the Institute for Concrete and Reinforced Concrete, and the Institute for Building Constructions, ASIA of the USSR (Institut betona i zhelezobetona i Institut stroitel'nykh konstruktsiy ASiA SSSR). Institute for Building Constructions gives the thickness of segmental slabs without connecting ribs, made from precast reinforced concrete, and used for industrial buildings, as 7.7 cms, and the consumption of steel as 12.2 kg/m². The thickness of large flat reinforced concrete roof slabs PKZh (GOST 7740-55) is 9.3 cm and consumption of steel 13.5 kg/m2. Investigations showed that in roof constructions with lofts in which roof slabs PKZh and floor slabs

Card 3/4

SOV/97-58-11-4/11

Building Practice and Use of Precast Reinforced Concrete Roof Constructions and Coverings.

> NK 64-12 were used efficient ventilation of the loft space was necessary. It was also found that towards the end of winter in unventilated roof constructions the mean humidity reached 12%, and at the soffit of the roof slab 1.6.2%. Fig.2 shows details of rocf ventilation; Fig.3: a section through the roof gutter; Fig.4: detail of arched roof slabs, ventilation and gutter arrangement. There are 4 figures.

Card 4/4

KUZNETSOV, G.F.; KHLUSOV, I.Ye., kend.tekhn.nauk; SHOLOKHOV, V.G., inzh., Prinimali uchastiye: AKBULATOV, Sh.F., kand.tekhn.nauk; KRICHEVSKAYA, Ye.I., kand.tekhn.nauk; DOROKHOV, A.N., inzh.; NIKIPOROV, I.A., kand.tekhn.nauk; BOGDANOV, B.N., inzh.; AVRU-TIN, Yu.Ye., inzh.; VISHNEVSKIY, N.D., inzh.; ARIYEVICH, E.M., kand.tekhn.nauk; LEVITAN, Ye.P., inzh.; TUPOLEV, M.S., prof., doktor arkhitektury. TEMKIN, L.Ye., inzh., red.; KHAVIN, B.N., red.izd-ve; BOROVNEV, N.K., tekhn.red.

[Temporary instruction (SN 51-59) for planning and constructing combined roofs of residential and public buildings] Vrementye ukazaniia po proektirovaniiu i ustroistvu sovmeshchennykh krysh (pokrytii) zhilykh i obshchestvennykh zdenii (SN 51-59). Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959.

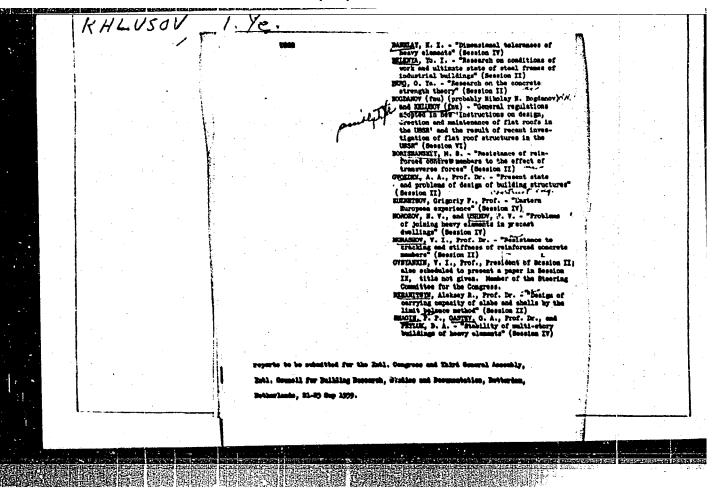
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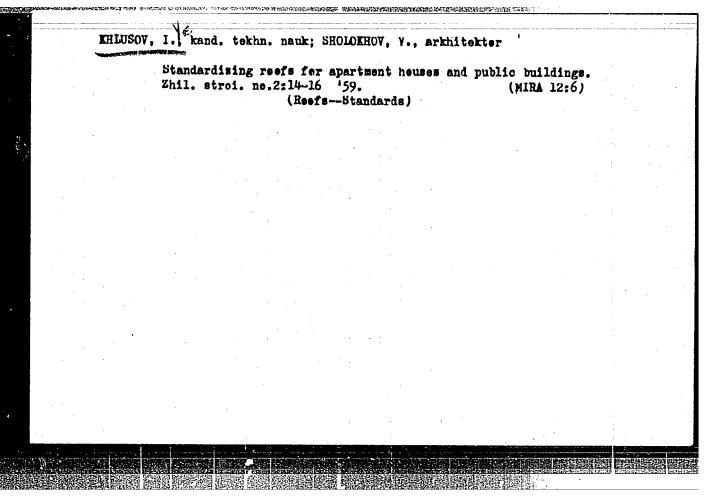
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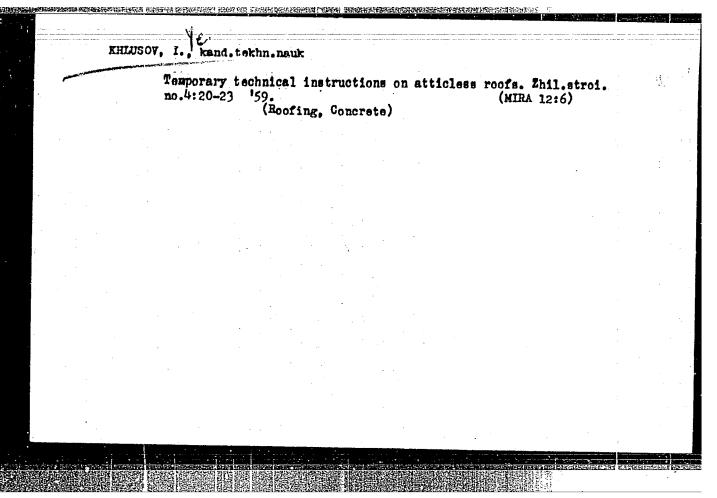
RUZNETSOV, G.F.——(continued) Gard 2.

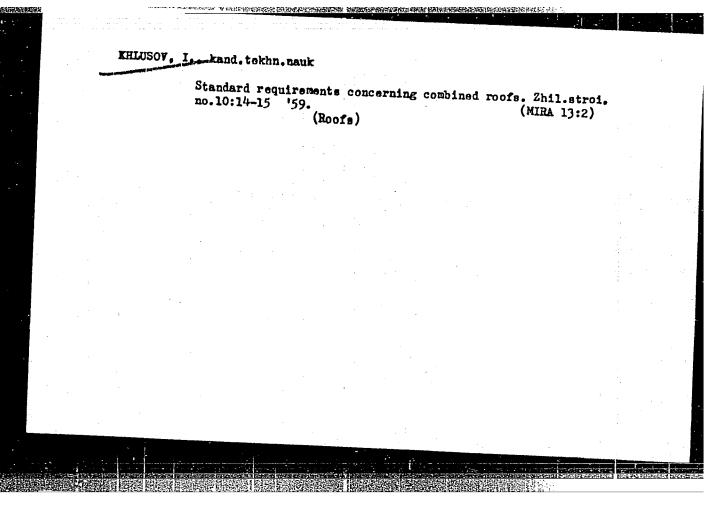
1. Russia (1923— U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Nauchno-issledovatel'skiy institut stroitel'noy fiziki i ograshdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Kuznetsov, Khlusov, Sholokhov).

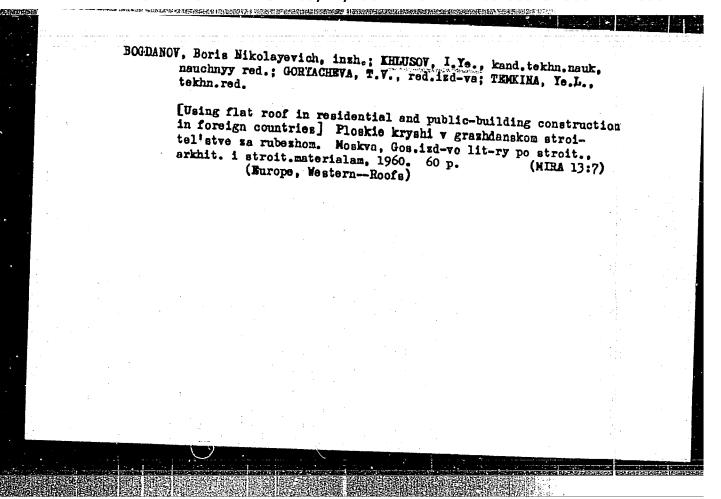
3. Direktor Nauchno-issledovatel'skogo instituta stroitel'noy fiziki i ograshdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR; deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Kuznetsov). 4. Nauchno-issledov.institut shilishcha (for Akbulatov, Krichevskaya). 5. Nauchno-issledov.institut proyektirovaniya Akademii stroitel'stva i arkhitektury SSSR (for Dorokhov). 6. Nauchno-issledov.institut po stroitel'stvu Minstroya RSFSR (for Nikiforov). 7. Gorstroyproyekt (for Bogdenov). 8. Mosproyekt (for Avrutin, Vishnevskiy). 9. Akademiya kommunal'nogo khozyaystva im. K.D. Pamfilova (for Ariyevich, Levitan). 10. Noskovskiy arkhitekturnyy institut (for Tupolev). (Roofs, Concrete)









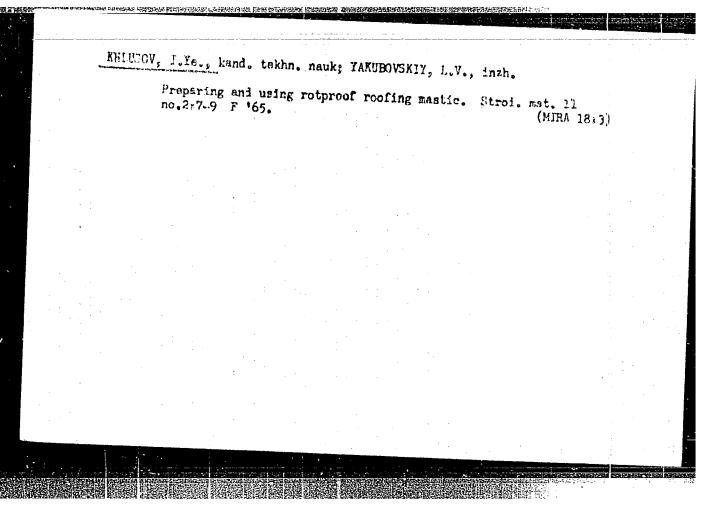


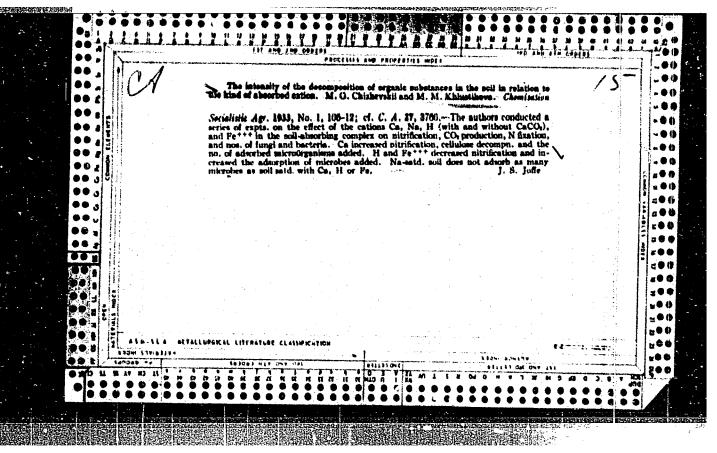
SHVARTS, A.S., arkhitektor; KUKUMOV, P.M., inzh.; DOBRYNIN, S.N., inzh.; DRAMPOV, V.K., inzh.; KHLUSOV, I.Ye., kand.tekhm.nauk; POVALYAYEV, M.I., kand.tekhm.nauk; SHOLOKHOV, V.G., inzh.; TEMKIN, L.Ye., inzh., red.; STRASHNYKH, V.P., red.izd-va; GOL'BERG, T.M., tekhm.red.

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[Temporary instructions for designing and constructing flat tar-paper roofs of industrial buildings] Vremennye ukazanila po proektirovanilu i ustroistvu ploskikh tolevykh krovel' sdanil promyshlennykh predpriiatii SN 112-60. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 23 p.

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Promstroyproyekt (for Shvarts, Kukunov, Dobrynin, Drampov). 3. Nauchno-issledovatel'skiy institut stroitel'noy fiziki i ograzhdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Khlusov, Povalyayev, Sholokhov). (Roofs)





USSR / General Problems of Pathology. The Pathophysiology of the Infectious Process.

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Abs Jour: Ref Zhur-Biol., No 22, 1958, 102483.

Author : Khlustsov, K. A. Inst : Leningrad Institute of Advanced Veterinary Train-

Title : The Immunologic Reactivity to Brucellosis in Calves in Various Methods of Raising Them.

Orig Pub: Sb. nauchn. tr. Leningr. in-ta usoversh. vet.

vrachey, 1953, No 8, 29-45.

Abstract: No abstract.

Card 1/1

TSION, R.A., prefessor; KHIJUSTSOV, X.A., professor; CHERKASSKIY, Ye.S.,

New edition of the textbook "Specialized epizeetielegy". Reviewed by R.A.TSion, K.A.Khlustsev, E.S.Cherkasskii. Veterinariia 32 no.12:76-81 D *55. (COHMUNICARIE DISEASES IN ANIMALS)

SARAYEVA, N.T.; MASTYUKOVA, Yu.N.; IGNAT'YEVA, G.V.; LEDENEVA, A.G.; KHLYABICH, G.N.

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Serological analysis of the clinical and epidemiological effectiveness of various y-globulin doses in the prevention of measles. Zhur. mikrobiol., epid. i immun. 42 no.11: 44-48 N 165. (MIRA 18:12)

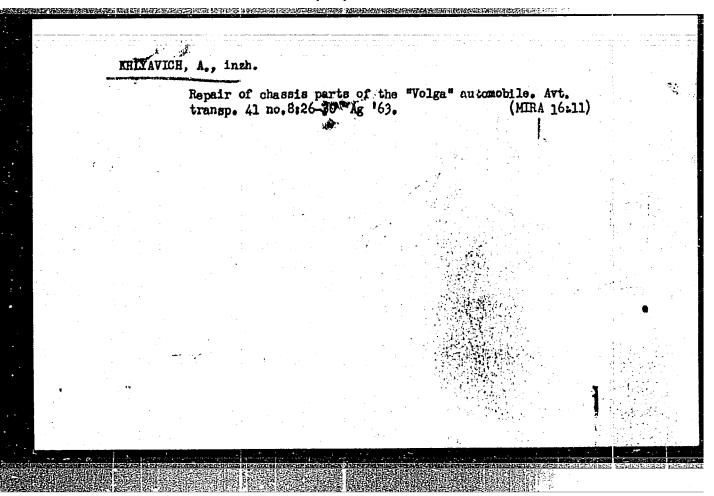
1. Moskovskiy institut epidemiologii i mikrobiologii. Submitted

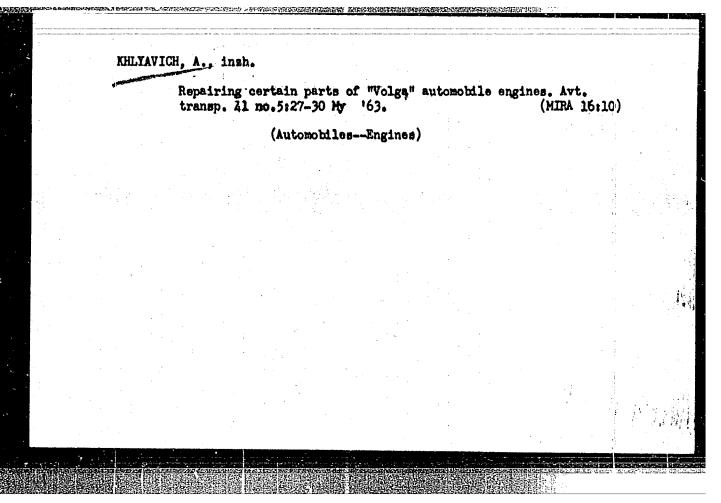
IGNAT'YEVA, G.V.; SARAYEVA, N.T.; KHROMETSKAYA, T.M.; LIDENEVA, A.G.;
MASTYUKOVA, Yu.N.; NESTEROVA, T.P.; ALAFUZOVA, S.B.; YERSHOVA, A.S.;
BARANOVA, T.V.; BEKLEMESHEVA, Ye.D.; SHIPOVA, Ye.P.; SUKHANOVA, R.V.;
KHLYABICH, G.N.; KHANTSIS, S.S.

l. Moskovskiy institut epidemiologii i mikrobiologii; Institut virusologii imeni Ivanovskogo AMN SSSR; Moskovskaya sanitarno-epidemiologicheskaya stantsiya; Rybinskaya sanitarno-epidemiologicheskaya stantsiya; Vladimirskaya sanitarno-epidemiologicheskaya stantsiya i Ob"yedinennaya detskaya poliklinika, Makhachkala.

	KHLYAVICH, A.											
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